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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 8

Complete if Known

Application Number 10/062,623
Filing Date January 31, 2002
First Named Inventor Dov Borovsky
Group Art Unit 1632
Examiner Name
Attorney Docket Number UF-216C1

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
90	U1	6,413,530		Borovsky et al.	07-02-2002	All
	U2	5,849,525		Hediger	12-15-1998	All
	U3	5,792,750		Borovsky et al.	08-11-1998	All
	U4	5,753,615		Thorpe et al.	05-19-1998	All
	U5	5,629,196		Borovsky et al.	05-13-1997	All
	U6	5,459,130		Borovsky et al.	10-17-1995	All
	U7	5,439,821		Borovsky et al.	08-08-1995	All
	U8	5,428,147		Barker et al.	06-27-1995	All
	U9	5,358,934		Borovsky et al.	10-25-1994	All
	U10	4,714,763		Theodoropoulos	12-22-1987	All
	U11	09/551,738		Borovsky (patent application)	04-18-2000	All
	U12	09/551,737		Borovsky et al. (patent application)	04-18-2000	All
	U13	09/296,113		Borovsky (patent application)	04-21-1999	All
	U14	09/295,924		Bennett et al. (patent application)	04-21-1999	All
	U15	09/295,846		Borovsky (patent application)	04-21-1999	All
	U16					
	U17					

FOREIGN PATENT DOCUMENTS

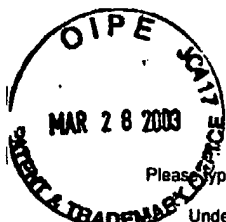
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
90	F1	WO	98/21348	✓ A1	Battelle Memorial Inst.	05-22-1998	All	
	F2	WO	95/24423	✓ A1	Queen Mary Westfield Coll.	09-14-1995	All	
	F3	WO	94/13698	✓ A1	Univ. of Florida	06-23-1994	All	
	F4	EP	0 682 115	✓ A1	Mycogen Plant Sci, Inc.	11-15-1995	All	
	F5	EP	0412595	✓ A1	Merck & Co., Inc.	02-13-1991	All	
	F6	JP	07 188282	✓	Masumi, Y.	07-25-1995	All	
	F7	JP	01 226898	✓	Ajinomoto, KK	09-11-1989	All	
	F8							
	F9							
	F10							

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 2 of 8		Complete if Known	
		Application Number	10/062,623
		Filing Date	January 31, 2002
		First Named Inventor	Dov Borovsky
		Group Art Unit	1632
		Examiner Name	
		Attorney Docket Number	UF-216C1

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	U1	5,800,811		Hall et al.	09-01-1998	All
	U2	5,656,260		Boden et al.	08-12-1997	All
	U3	5,273,749		Bok et al.	12-28-1993	All
	U4	5,508,264		Bradfish et al.	04-16-1996	All
	U5	5,141,744		Chang et al.	08-25-1992	All
	U6	5,749,168		Chrysanthis	05-12-1998	All
	U7	5,713,153		Cook et al.	02-03-1998	All
	U8	5,513,465		Demarest et al.	05-07-1996	All
	U9	5,612,047		Duffy et al.	03-18-1997	All
	U10	5,676,958		Emerson et al.	10-14-1997	All
	U11	5,250,515		Fuchs et al.	10-05-1993	All
	U12	4,266,074		Fujimoto et al.	05-05-1981	All
	U13	5,714,191		Halton et al.	02-03-1998	All
	U14	5,604,121		Hilder et al.	02-18-1997	All
	U15	5,688,764		Johnson et al.	11-18-1997	All
	U16	5,344,821		Kingan et al.	09-06-1994	All
	U17	5,741,669		Krapcho et al.	04-21-1998	All

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		First Named Inventor	Dov Borovsky
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		Examiner Name	
		Attorney Docket Number	UF-216C1
Sheet	3	of	8

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		Number	Kind Code ² (if known)			
7/2	U1	5,693,344		Knight et al.	12-02-1997	All
	U2	4,985,251		Levy	01-15-1991	All
	U3	4,983,390		Levy	01-08-1991	All
	U4	5,824,328		Levy	10-20-1998	All
	U5	5,567,430		Levy	10-22-1996	All
	U6	5,846,553		Levy	12-08-1998	All
	U7	5,522,171		Mandeville	06-04-1996	All
	U8	5,683,687		Marin et al.	11-04-1997	All
	U9	5,093,362		Milner et al.	03-03-1992	All
	U10	5,840,293		Nacht et al.	11-24-1998	All
	U11	5,259,153		Olive et al.	11-09-1993	All
	U12	5,348,665		Shulte et al.	09-20-1994	All
	U13	5,737,870		Thind	04-14-1998	All
	U14	5,527,883		Thompson et al.	06-18-1996	All
	U15	5,676,846		Vickell et al.	10-14-1997	All
	U16	RE34,402		Williams	10-12-1993	All
	U17	5,670,145		Wright	09-23-1997	All
	U18	5,399,344		Yang et al.	03-21-1995	All

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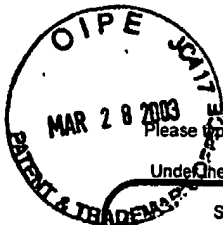
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Application Number	10/062,623
Filing Date	January 31, 2002
First Named Inventor	Dov Borovsky
Group Art Unit	1632
Examiner Name	
Attorney Docket Number	UF-216C1

Sheet 5 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
76	R14	DE BOLLE, M. <i>et al.</i> "Antimicrobial peptides from <i>Mirabilis jalapa</i> and <i>Amaranthus caudatus</i> : expression, processing, localization and biological activity in transgenic tobacco" <i>Plant Mole. Biol.</i> , 1996, 31:993-1008.	
	R15	DESLAURIERS <i>et al.</i> "Steric Effects of Cis-Trans Isomerism on Neighboring Residues in Proline Oligopeptides: A C-NMR Study of conformational Heterogeneity in Linear Tripeptides" <i>Biopolymers</i> , 1979, 18(3):523-538.	
	R16	EIPPER <i>et al.</i> "The Biosynthesis of Neuropeptides: Peptide Amidation" <i>Annu. Rev. Neurosci.</i> , 1992, 15:57-85.	
	R17	GAUTHIER <i>et al.</i> "Direct Submission" <i>Plant Physiol.</i> , 1995, 108:1341. (abstract/sequence only).	
	R18	HENDERSON <i>et al.</i> "Physicochemical studies of biologically active peptides by low-temperature reversed-phase high-performance liquid chromatography" <i>Chemical Abstracts</i> , May 21, 1990, 112(21), abstract no. 192024, abstract only.	
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	R20	HLAVACEK <i>et al.</i> "The C-Terminus Shortened Analogs of the Insect Peptide Oostatic Hormone with Accelerated Activity" <i>Bioorg. Chem.</i> , October 1998, 26:131-140.	
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	R24	KOLASKAR, A.S. and V. RAMABRAHMAN "Conformational properties of pairs of amino acids" <i>Int. J. Peptide Protein Res.</i> , 1983, 22:83-91.	
	R25	LADRAM <i>et al.</i> "Characterization of receptors for thyrotropin-releasing hormone-receptors potentiating peptide on rat anterior pituitary membranes" <i>J. Biol. Chem.</i> , 1992, 267(36):25697-25702.	
	R26	LIN, Y. <i>et al.</i> "Structure, Expression and Hormonal Control of Genes from the Mosquito, <i>Aedes aegypti</i> , Which Encode Proteins Similar to the Vitelline Membrane Proteins of <i>Drosophila melanogaster</i> " <i>Dev. Biology</i> , 1993, 155:558-568.	

Examiner
Signature

Joe W. [Signature]

Date
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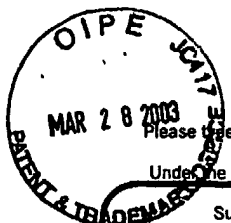
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Application Number

10/062,623

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First Named Inventor

Dov Borovsky

Group Art Unit

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76	R27	MASOUD, S.A. <i>et al.</i> "Expression of a cysteine proteinase inhibitor (oryzacystatin-I) in transgenic tobacco plants" <i>Plant Molecular Biology</i> , 1993, 21:655-663.	
	R28	MASUDA, N. <i>et al.</i> "Primary structure of protein moiety of <i>Penicillium notatum</i> phospholipase B deduced from the cDNA" <i>Eur. J. Biochem.</i> , 1991, 202:783-787.	
	R29	MEISSNER, H. <i>et al.</i> Accession No. O33838, November 1997.	
	R30	MENN <i>et al.</i> "Insect Neuropeptides: Potential New Insect Control Agents" <i>J. Agric. Food Chem.</i> , 1989, 37:271-274.	
	R31	MENZEL, D. <i>et al.</i> Accession No. P48579, 1995.	
	R32	MERKLER <i>et al.</i> "C-Terminal amidated peptides: Production by the <i>in vitro</i> enzymatic amidation of glycine-extended peptides and the importance of the amide to bioactivity" <i>Enzyme</i> , 1994, 16(6):450-456.	
	R33	NARBERHAUS <i>et al.</i> "The Bradyrhizobium japonicum rpoH1 gene encoding a sigma 32-like protein is part of a unique heat shock gene cluster together with groESL1 and three small heat shock genes" <i>J. Bacteriol.</i> , 1996, 178:5337-5346 (abstract/sequence only).	
	R34	NAUEN <i>et al.</i> "TMOF-like factor controls the biosynthesis of serine proteases in the larval gut of <i>Heliothis virescens</i> " <i>Arch. Insect. Biochem.</i> , 2001, 47:169-180.	
	R35	OKADA <i>et al.</i> "Synthesis of bradykinin fragments and their effect on pentobarbital sleeping time in mouse" <i>Chemical Abstracts</i> , November 7, 1977, 87(19), abstract no. 146142, abstract only.	
	R36	OKAMOTO, M. <i>et al.</i> "Enhanced Expression of an Antimicrobial Peptide Sarcotoxin IA by GUS Fusion in Transgenic Tobacco Plants" <i>Plant Cell Physiol.</i> , 1998, 39:57-63.	
	R37	PANG, S. <i>et al.</i> "Expression of a gene encoding a scorpion insectotoxin peptide in yeast, bacteria and plants" <i>Gene</i> , 1992, 116:165-172.	
	R38	PAULETTI <i>et al.</i> "Structural requirements for intestinal absorption of peptide drugs" <i>J. Controlled Rel.</i> , 1996, 41:3-17.	
	R39	RAYNE, R.C. and M. O'SHEA "Inactivation of Neuropeptide Hormones (AKH I and AKH II) Studied <i>In Vivo</i> and <i>In Vitro</i> " <i>Insect Biochem. Molec.</i> , 1992, 22(1):25-34.	

Examiner Signature	<i>Joe Watach</i>	Date Considered	12/10/03
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76	R40	ROGINA, B. <i>et al.</i> Accession Nos. P24342, Q90780, 1992.	
	R41	ROURKE <i>et al.</i> "Heterologous Expression of Human Cholecystokinin in <i>Saccharomyces cerevisiae</i> " <i>J. Biol. Chem.</i> , 1997, 15:9720-9727.	
	R42	RUDINGER "Characteristics of the amino acids as components of a peptide hormone sequence" June 1976, pp. 1-7, In <i>Peptide Hormones</i> , Parsons (ed.), University Park press, Baltimore.	
	R43	SCHARTAU, W. <i>et al.</i> Accession No. X16893, 1990.	
	R45	SCHWARTZ, J.C. <i>et al.</i> "Biological Inactivation of Enkephalins and the Role of Enkephalin-Dipeptidyl-Carboxypeptidase ("Enkephalinase") as Neuropeptidase" <i>Life Sciences</i> , 1981, 29:1715-1740.	
	R46	SHIBNEV <i>et al.</i> "Synthesis of monomers that are triplets of the "crystalline" part of the collagen molecule" <i>Chemical Abstracts</i> , June 23, 1969, 70(25):392-397, abstract only.	
	R47	SOBER, H.A. "Handbook of Biochemistry" The Chemical Rubber Co., Cleveland, Ohio, 1968, page C70.	
	R48	SOUTHWICK, F.S. and D.L. PURICH "Inhibition of <i>Listeria</i> Locomotion by Mosquito Oostatic Factor, a Natural Oligoproline Peptide Uncoupler of Profilin Action" <i>Infection and Immunity</i> , 1995, 63(1):182-190.	
	R49	STONE, S. <i>et al.</i> Accession No. P11493, 1997.	
	R50	TAYLOR, M. "Trypsin Isolated from the Midgut of the Tobacco Hornworm, <i>Manduca sexta</i> , is Inhibited by Synthetic Pro-peptides <i>in Vitro</i> " <i>Biochem. and Biophys. Res. Comm.</i> , 1997, 235:606-609.	
	R51	TYKVA, R. <i>et al.</i> "The fate of an oostatic peptide or its analogs including metabolites in insects Diptera and Orthoptera and its transformation to the next generation" <i>Chemical Abstracts</i> , 132(26), abstract no. 345576.	
	R52	VAECK, M. <i>et al.</i> "Transgenic plants protected from insect attack" <i>Nature</i> , 1987, 328:33-37.	
	R53	VOIT, R. and G. FELDMAIER-FUCHS "Arthropod Hemocyanins. Molecular Cloning and Sequencing of cDNAs Encoding the Tarantula Hemocyanin Subunits a and e" <i>J. Biol. Chem.</i> , November 15, 1990, 265:19447-19452.	

Examiner Signature	<i>Joe Waller</i>	Date Considered	12/10/03
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete if Known

Application Number	10/062,623
Filing Date	January 31, 2002
First Named Inventor	Dov Borovsky
Group Art Unit	1632
Examiner Name	
Attorney Docket Number	UF-216C1

Sheet 8 of 8

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article, (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>W</i>	R54	YOUN, H. <i>et al.</i> Accession No. Q9JP84, 1998.
	R55	
	R56	
	R57	
	R58	
	R59	
	R60	
	R61	
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	R66	

Examiner Signature	<i>Joe Walter</i>	Date Considered	12/10/03
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PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
UF-216C1SERIAL NO.
10/062,623

FIRST NAMED APPLICANT: Dov Borovsky

FILING DATE
January 31, 2002

GROUP ART UNIT

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
9w	AA 5 3 5 8 9 3 4	10/25/94	Borovsky et al.			
	AB 5 0 1 1 9 0 9	4/30/91	Borovsky et al.			
	AC 5 1 3 0 2 5 3	7/14/92	Borovsky et al.			
	AA 5 5 0 1 9 7 6	3/26/96	Borovsky et al.			
	AD					
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	AH					
	AI					
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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
9w AL 9 3 2 1 2 1 7	4/16/92	PCT			
AM					
AN					
AO					
AP					

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

9w	AR	Borovsky, Dov (1985) "Isolation and Characterization of Highly Purified Mosquito Oostatic Hormone" <i>Archives of Insect Biochemistry and Physiology</i> 2:333-349.
	AS	Borovsky, Dov (1988) "Oostatic Hormone Inhibits Biosynthesis of Midgut Proteolytic Enzymes and Egg Development in Mosquitoes" <i>Archives of Insect Biochemistry and Physiology</i> 7:187-210.
	AT	Borovsky, Dov (1990) "Mosquito oostatic factor: a novel decapeptide modulating trypsin-like enzyme biosynthesis in the midgut" <i>The FASEB Journal</i> 4:3015-3019.
	AU	Borovsky, Dov, D.A. Carlson, P.R. Griffin, J. Shabanowitz, D.F. Hunts (1993) "Mass Spectrometry and Characterization of <i>Aedes aegypti</i> Trypsin Modulating Oostatic Factor (TMOF) and its Analogs" <i>Insect Biochem. Molec. Biol.</i> 23(6):703-712.
	AV	Borovsky, Dov, C.A. Powell, J.K. Nayar, J. Edwin Blalock, T.K. Hayes (1994) "Characterization and localization of mosquito-gut receptors for trypsin modulating oostatic factor using a complementary peptide and immunocytochemistry" <i>The FASEB Journal</i> 8:350-355.

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	AL						
	AM						
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

W	AR	Curry, W.J., C. Shaw, C.F. Johnston, L. Thim, K.D. Buchanan (1992) "Neuropeptide F: Primary Structure From The Tubellarian, <i>Artioposthia Triangulata</i> " <i>Comp. Biochem. Physiol.</i> 101C(2):269-274.
I	AS	Duve, Hanne, Alan Thorpe, Ray Neville, Norman R. Lazarus (1981) "Isolation and partial characterization of pancreatic polypeptide-like material in the brain of the blowfly <i>Calliphora vomitoria</i> " <i>J. Biochem.</i> 197:767-770.
	AT	Leung, P.S., C. Shaw, A.G. Maule, L. Thim, C.F. Johnston, G.B. Irvine (1992) "The primary structure of neuropeptide F (NPF) from the garden snail, <i>Helix aspersa</i> " <i>Regulatory Peptides</i> 41:71-81.
	AU	Maule <i>et al.</i> (1991) "Neuropeptide F: a novel parasitic flatworm regulatory peptide from <i>Moniezia expansa</i> (Cestoda: Cyclophyllidae)" <i>Parasitology</i> 102:309-316.
	AV	Rajpara, Sanjay M., <i>et al.</i> (1992) "Identification and Molecular Cloning of a Neuropeptide Y Homolog That Produces Prolonged Inhibition in <i>Aplysia</i> Neurons" <i>Neuron</i> 9:505-513.

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	AN						
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76	AR	Spittaels, Kurt, Peter Verhaert, Christ Shaw, Richard N. Johnston, Bart Devreese, Jos Van Beeumen, Arnold De Loof (1996) "Insect Neuropeptide F (NPF)-related Peptides: Isolation from Colorado Potato Beetle (<i>Leptinotarsa decemlineata</i>) Brain" <i>Insect Biochem. Molec. Biol.</i> 26(4):375-382.
	AS	Veenstra, J.A., H.M. Romberg-Privee, H. Schooneveld, J.M. Polak (1985) "Immunocytochemical localization of peptidergic neurons and neurosecretory cells in the neuro-endocrine system of the Colorado potato beetle with antisera to vertebrate regulatory peptides" <i>Histochemistry</i> 82:9-18.
	AT	Verhaert, Peter, Cornelis J. P. Grimmelikhuijzen, Arnold De Loof (1985) "Distinct Localization of FMRFamide- and Bovine Pancreatic Polypeptide-Like Material in the Brain, Retrocerebral Complex and Suboesophageal Ganglion of the Cockroach <i>Periplaneta americana</i> L." <i>Brain Research</i> 348:331-338.
	AU	Rao, R. et al. (1996) "Synthesis and Expression of Genes Encoding Putative Insect Neuropeptide Precursors in Tobacco" <i>Gene</i> 175:1-5.
	AV	Tortiglione, C. et al. (1999) (Abstract) "New genes for Pest Control" <i>Genetics and Breeding for Crop Quality and Resistance</i> .
	AW	Tortiglione, C. et al. (1999) "New Genes for Pest Control" <i>Genetics and Breeding for Crop Quality and Resistance</i> pp. 159-163.

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